

ExceFil[®]

Biological wound matrix

Flexible Solutions for Optimal
Clinical Outcomes

ExceFil® ADVANCED DERMAL REGENERATION

Restoring the Foundation for Natural Healing

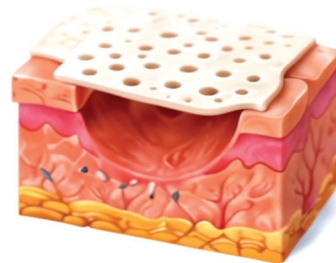
Successful wound healing depends on restoring a healthy dermal layer capable of supporting cellular migration, vascularization, and tissue remodeling. In complex wounds, replacing lost dermal tissue is essential to achieve functional recovery and favorable clinical outcomes.

ExceFil® Biological Wound Matrix is a naturally derived extracellular matrix designed to act as a temporary biological scaffold. The preserved three-dimensional structure supports host cell infiltration, neovascularization, and progressive tissue regeneration while gradually integrating with the patient's own tissue.

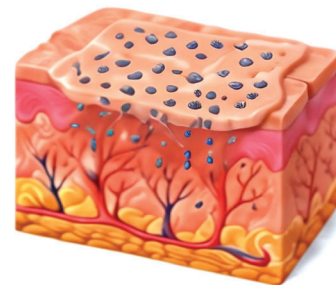
By providing immediate structural support during the healing process, **ExceFil®** helps clinicians manage acute and chronic wounds with confidence while promoting durable dermal regeneration.

THE HEALING PROCESS

1 INITIAL PHASE: ExceFil® is applied to the wound bed, providing immediate coverage and a scaffold for cell migration.



2 INTEGRATION PHASE: Cells infiltrate the matrix and new blood vessels form, supporting tissue integration and extracellular matrix remodeling.



3 REGENERATION PHASE: The matrix is gradually remodeled and replaced by the patient's own tissue, resulting in stable, vascularized dermal regeneration.



ExceFil® can be used as a One-Step or Two-Step procedure, depending on the wound condition and clinical objectives. Both approaches support dermal regeneration and promote healing.

Biological Wound Matrix

Advanced Extracellular Matrix for Dermal Regeneration

Both Fenestrated and non Fenestrated Structure

Allows for cellular infiltration, vascularization and tissue integration.

Native Collagen & Elastin

Preserves the natural components of the extracellular matrix to support native healing.

No Chemical Cross Linking

Retains the native structure and bioactivity for optimal biocompatibility and remodeling.

Supports Dermal Regeneration

Promotes Tissue Integration

Facilitates Neovascularization

One-Step & Two-Step Application



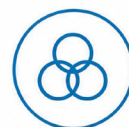
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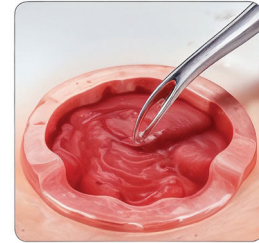
One-Step &
Two-Step

Immediate application, integration and split-thickness skin graft (STSG)

ExceFil® is applied directly to the wound bed, secured with a split-thickness skin graft (STSG), and appropriately dressed.

1. Prepare the Wound Bed

Debride devitalized tissue and cleanse the wound. Achieve a well-vascularized wound bed.



2. Apply ExceFil®

Place ExceFil®. Ensure complete contact with the wound bed.



3. Apply Split-Thickness Skin Graft (STSG)

Apply split-thickness skin graft (STSG) over the matrix.



Secure and dress per protocol.

Ideal For

- Clean wounds
- Well-vascularized beds
- When immediate definitive coverage is indicated



NATIVE COLLAGEN & ELASTIN

Preserves the natural components of the extracellular matrix to support native healing.



NO CHEMICAL CROSS LINKING

Retains the native structure and bioactivity for optimal biocompatibility and remodeling.

Surgical Management of Traumatic Heel Defect:

53Y, Male, uncontrolled Type 2 DM, Traumatic wound over the heel caused by sharp object injury, Managed with progressive wound care and NPWT 35 days, the wound reached clean with good vascularity, optimal granulation tissue with no signs of infection

1. Prepare the Wound Bed

Evaluate of the wound post-Debridement, confirming no signs of infection with well vascularized tissue bed.



2. Apply ExceFil®

Apply an Excefil sheet over wound bed prior to grafting to enhance graft adherence and accelerate tissue healing.



3. Apply Split-Thickness Skin Graft (STSG)

Definite coverage using STSG secured in place with surgical staplers.



NATIVE COLLAGEN & ELASTIN

Preserves the natural components of the extracellular matrix to support native healing.



NO CHEMICAL CROSS LINKING

Retains the native structure and bioactivity for optimal biocompatibility and remodeling.

Matrix integration followed by split-thickness skin graft (STSG)

ExceFil® is first applied to the wound bed to allow matrix integration and vascularization. A second-stage procedure is then performed to apply a split-thickness skin graft (STSG).

Step 1: Matrix Integration (7-14 Days)

1. Prepare the Wound Bed

Debride and cleanse the wound thoroughly.
Ensure optimal wound bed preparation.

2. Apply ExceFil®

Place ExceFil® Ensure complete contact with the wound bed.

3. Secure & Dress

Secure with sutures or staples.
Cover with non-adherent dressing.
Allow time for integration and vascularization.

Step 2: Split-Thickness Skin Graft (STSG) (After Integration)

4. Assess Integration

Evaluate matrix integration and vascularization. Confirm readiness for split-thickness skin graft (STSG).

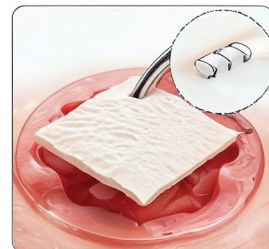
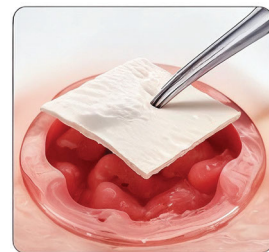
5. Apply Split-Thickness Skin Graft (STSG)

Apply split-thickness skin graft (STSG) over the integrated matrix.

Secure and dress per protocol.

Ideal For

- Large or complex wounds
- Poorly vascularized beds
- When staged coverage is preferred



Healing of resist heal wound with tendon and bone exposed of diabetic patient.

History: 41F, Type 2 Diabetes, with Sharp Plastic Ankle Injury when harming: Non-Healing Wound Post 20-Day VSD.

Step 1: Wound Preparation and Excefil Application

1. Prepare the Wound Bed

After debridement, the Achilles tendon is exposed



2. Apply ExceFil®

The ExceFil® was applied across the wound bed and secured to ensure obtain optimal contact.



3. Secure & Dress

Healthy well vascularized granulation tissue covers exposed bone and tendon, indicating healthy wound bed



Step 2: Split-Thickness Skin Graft (STSG)

4. Apply Split-Thickness Skin Graft (STSG)

Apply split-thickness skin graft (STSG) over the healthy wound bed.



5. 3 Months after Grafting





Biological wound matrix

ONE-STEP

Ref. No.	Size CM	Thickness
ZR-STRG-5x5	05 x 05	1 mm
ZR-STRG-7x5	07 x 05	1 mm
ZR-STRG-10x7	10 x 07	1 mm
ZR-STRG-15x10	15 x 10	1 mm
ZR-STRG-30x20	30 x 20	1 mm

ZR-STRX-7x5	07 x 05	2 mm
ZR-STRX-10x7	10 x 07	2 mm
ZR-STRX-15x10	15 x 10	2 mm

TWO-STEPS

Ref. No.	Size CM	Thickness
ZR-STRL-10x7	10 x 07	2 mm
ZR-STRL-15x10	15 x 10	2 mm
ZR-STRL-20x15	20 x 15	2 mm
ZR-STRL-30x20	30 x 20	2 mm

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